

**ARTILLERY, MINE/DEMOLITION NOISE SIMULATOR, DEVICE 17A1A****TRAINING CATEGORY:**

LAND OPERATIONS (Infantry)

**ORIGINATING AGENCY:**

MARCORPS

**SECURITY CLASSIFICATION:**

Device 17A1A is unclassified.

**INTENDED USE:**

For field use in either basic or advanced infantry training.

To condition trainee infantrymen to perform their normal duties while experiencing common battle noises.

To teach the normal techniques and caution required in passing through a mined area.

To increase students' powers of observation during battle conditions.

To develop visual acuity in detection of mines and booby traps.

**FUNCTIONAL DESCRIPTION:**

Device 17A1A is a noise simulator which can be used in all types of combat courses. It can be used to simulate falling artillery, mortar fire, demolitions, and mines. It operates on the oxygen-propane principle. Gases are metered through solenoid valves; a timing device causes sparks in the gasfilled chamber, causing explosion. The device is set off by the instructor by means of a push-button. It provides a maximum of 10-rounds per minute, or single-shot firing capability.

The device may be permanently installed and operated remotely, or can be operated in the portable mode with a battery-inverter power source.

## DIRECTORY OF NAVAL TRAINING DEVICES

## PHYSICAL INFORMATION:

Size: The firing chamber is approximately 30" high.

Weight: 150 lbs. (total)

## ENVIRONMENTAL CHARACTERISTICS:

Explosion noise can cause hearing damage. Care should be used in firing the device when personnel are in close proximity. During prolonged testing of the device, ear protectors should be used.

## EQUIPMENT REQUIRED (NOT SUPPLIED):

(1) Battery, 12 VDC, Type 2HN or equivalent; (1) Power Cable; (1) Remote Control Trigger Cable; (1) Oxygen Cylinder (FSN 8120-151-9758).

Device 17A1A can be used simultaneously with the Small Arms Flash and Noise Simulator, Device 3C65D (M2), and/or the 90 MM Tank Gunfire Simulator, Device 3A74 (M4), in creating realistic simulation of combat situations.

## INSTALLATION AREA:

A pit approximately 4 feet deep, 4 feet wide, and 6 feet long is required. The equipment should be installed in a 4-inch thick, reinforced concrete bunker.

## POWER REQUIREMENTS:

115 VAC, 60 Hz, single-phase or a 12 volt battery using an inverter.

## PUBLICATIONS FURNISHED:

Maintenance Handbook for Artillery, Mine, and Demolition Simulator, Device 17A1A, NAVEXOS P-2769 (U).

Maintenance Handbook with Parts List for Artillery, Mine, and Demolition Noise Simulator, Device 17A1A (Units No. 31 and above) and 17A1B, NAVSO P-2897 (U).

## PERSONNEL:

Instructors:	One (1)
Operators:	Instructor-Operated
Trainees:	Infantry
Maintenance:	Nominal (approximately 1 hour per 40-hour utilization week).

## RELATED TRAINING DEVICES:

Device 17A1B

## CONTRACT IDENTIFICATION:

Manufactured by Joannel Laboratories, Inc., Livingston, N.J., under NAVTRASYSCEN Contract No. N140-(61339)-76991B.

## LOCAL STOCK NUMBER:

6920-LL-C00-3472